Ghinwa Samir Kanj

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Profile

Final-year Computer Engineering student at the Lebanese International University (LIU) with hands-on experience in Java and SQL. Passionate about IoT, AI, network communication, and innovative tech solutions. Adept at delivering practical tech solutions through teamwork and problem-solving.

Education

Bachelor of Science in Computer Engineering   2023-Present
Lebanese International University, Beirut, Lebanon

Expected Graduation: Fall 2025-2026

- GPA: 3.99
- Relevant Coursework:
  - **Linear Algebra**
  - **Probability and Statistics for Scientists and Engineers**
  - **Scripting Language Lab:**
  - Introductory course to programming with Python using NumPy and Pandas libraries on Jupyter Notebook.
  - **Database Systems:**
    Developed a veterinary clinic management system using Java and SQL to manage vets and secretary accounts, appointments, and patient data.
  - **Web Programming and Technologies:**
    Developed web pages and connected them to databases, with HTML/CSS and JavaScript.

TechGirls Program   Summer 2018
Legacy International, USA

Program dedicated to introducing girls from the MENA region to STEM fields and teaching them coding to implement community-based projects at home.

Projects

Posture Detector

Developed a posture detector that currently supports 20 users locally and 255 users in the database, integrated with WiFi module enabling real-time data transfer viewable via a web application, where user data is centralized for tracking posture changes over time, as well as managing user details, such as username, password, and WiFi networks.

Software: Arduino IDE, XAMPP

Hardware: Arduino UNO, Flex Sensor, ESP-01 ESP8266, SPI TFT Display, Push Button

Smart Disinfection System

Developed a sensor-based disinfection system to promote hygiene in public restrooms and combat the spread of different pathogens and viruses, such as COVID-19 and E. coli, simulated and tested through TinkerCAD and Arduino.

Experience

Project-based Instructor   2022-Present
The Maker's Hub, Beirut, Lebanon

- Designed and executed three first-place prize-winning projects: Posture Detector, Automatic Braking System, Fingerprint-Based Security and Attendance System, using Arduino and 3D printing.
- Taught beginner-level 3D modeling (Fusion 360 and SolidWorks 2019) and delivered STEM-integrated activities in workshops hosted by Kayany Foundation.
- Contributed to STEM events: assisting in robotics and teaching Arduino.

Technical Skills

Coding Languages:

- Java   (Intermediate)
- JavaScript   (Developing)
- HTML/CSS   (Intermediate)
- SQL   (Intermediate)
- Linux   (Developing)
- Python   (Developing)

Software & Tools:

- Netbeans
- Arduino IDE
- XAMPP

Languages

- **English:** Fluent
- **Arabic:** Native
- **French:** Beginner

Awards

Volunteer's Certificates   2019
GirlsGotIT, Beirut, Lebanon

TechGirls Certificate of Completion   2018
Legacy International, USA

References

Sabin El-Kai   Available upon request
Founder of The Maker's Hub